# 8803

Diag. Cht. No. 526.

Form #84

U. S. DEPARTMENT OF COMMERCE

# **DESCRIPTIVE REPORT**

Type of Survey HYDROGRAPHIC

Field No. HFP 12-1-64 Office No. H-8803

LOCALITY

State NEVADA - ARIZONA

General locality TRMPLE BAR

Locality LAKE MEAD

19.64

CHIEF OF PARTY
P.A.STARK,CDR.,USC&GS
H.E.McCAIL,LT.,USC&GS

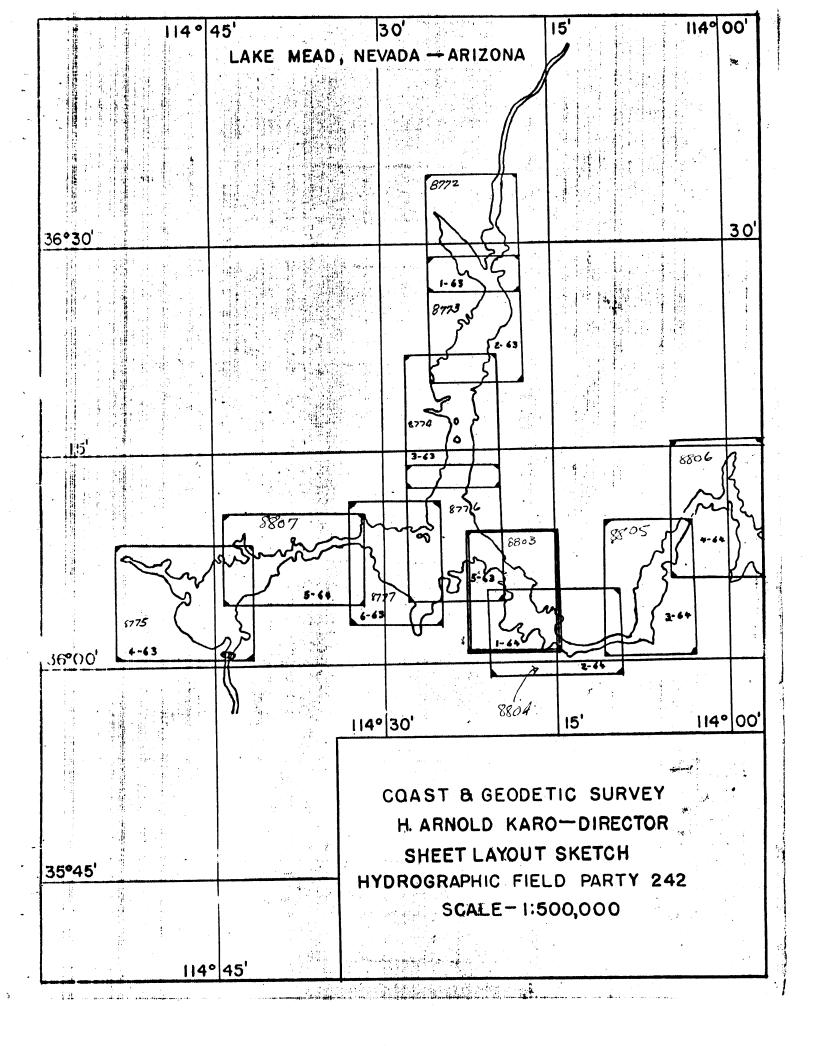
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USCOMM-DC 5087

FORM C&GS-537  U.S. DEPARTMENT OF COM (8-15-59)  COAST AND GEODETIC S	
HYDROGRAPHIC TITLE SHEET	H _ 8803
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this filled in as completely as possible, when the sheet is forwarded to the O	· 1
State NEVADA * ARIZONA	
General locality TEMPLE BAR	
Locality LAKE MEAD, NEVADA - ARIZONA	
Scale 1;12 000 Date 2100 B-pt, S2-219	of survey JAN.2,1964 TO APRIL 22,1964
Instructions dated 10 MAY 1963 Pro	ject No. <u>0 P R =4/43</u>
Vessel LAUNCH CS 1177 AND LAUNCH CS 183	
Chief of party P.A. STARK, CDR., USCAGS AND H.E.M	IcCALL, LT., USC&GS
Surveyed by GUY F. TREFETHEN AND RICHARD H. A	•
Soundings taken by echo sounder, hand lead, pole	•
Graphic record scaled by PARTY PERSONNET.	
Graphic record checked by PARTY PERSONNEL	
Protracted by	
Soundings penciled by	•
	TION ABOVE MSL
REMARKS: All echo soundings are in feet and	tenths of feet. All soundings
are converted to elevation of feet above	Mean Sea Tevel. Soundings on
the boat sheet are elevation above Mean S	ea Level. Only three digits
were used, the first digit in 1,000 , 110	0 and 1200 were left off to
make the sheet less congested. For examp	le: Elev. 1127 on the boat
sheet would be 127.	
<del></del>	

· -.



# DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H-8803 (Field No. H.F.P. 12-1-64) Project OPR-443

SCALE: 1:12000

HFP 219

CHIEF OF PARTY:

H.E.McCALL, Lt., USC&GS

### A. PROJECT

Project OPR-433 was completed in accordance with instructions 2100B-pt, S2-219 dated 10 May 1963, Lake Mead, Nevada-Arizona.

#### B. AREA SURVEYED.

The geographical limits of this sheet are from Lat. 36°02'N to Lat. 36°09'N and Long. 114°17'W to Long. 114°22'W.

The survey covers Temple Bar Anchorage, Trail Rapids Bay, Teal Coves, Delmar Bay, and Grebe Bay.

This survey makes junction with contemporary survey H-8776 (HFP 12-5-63) on the Northwest and H-8804 (HFP 12-2-64) on the Southeast.

This survey also makes junction with Navy sheet No.4 dated 1948-1949, Scale 1:12,000 on the Northwest and Navy sheet No.

9 dated 1948-1949, Scale 1:12,000 on the Southeast.

This survey area was covered by Navy sheet No.8 dated 1948-1949, Scale 1:12,000.

Hydrography began on January 2,1964, and was completed September 22,1964.

# C. SOUNDING VESSEL

The vessels used were Launch CS 1177, designated by blue day letters, and Launch CS 183 designated by violet day letters.

# D. SOUNDING EQUIPMENT

On Launch CS 1177 the following Raytheon DE 723 fathometers were used:

Number	263	200	KC
Number	265	200	KC
Number	263	20	KC
Number	544	20	KC
Number	549	20	KC

On Launch CS 183 the following Raytheon DE 723 fathometers were used:

Number	263	200 KC
Number	265	200 KC
Number	543	20 KC

In certain areas two fathometers were run simultaneously. The 200 KC fathometer was operated on feet and the 20 KC was operated on fathoms. This procedure was used to assist the fathometer operator in keeping up with the scales. On crosslines two fathometers were operated simultaneously, both on feet, to show sedimentation.

In some instances the soundings from the 20 KC fathogram were converted from fathoms to feet and placed in the sounding volumes. Such soundings are noted in the sounding volumes by an asterisk and the word fahoms, or an abbreviation thereof, was placed in the remarks column.

Daily bar checks were taken to dertermine the corrections to be applied for the 200 KC unit. Bathythermography observations were made to obtain temperatures at depths beyond the range of the bar checks.

#### E. SMOOTH SHEET

To be completed by smooth plotter.

# F. CONTROL

All signals were located by ground survey methods. Appendix B contains a list of signals and indicates the methods used to locate the signals.

The hydrography was controlled by visual three point fixes.

In all of the coves in which hydrography was run, where there were no available fixes, the hydrographic lines were run by dead reckoning.

The normal procedure of the hydrographer spotting his position on the boat sheet from adjacent features of the shoreline was not adhered to even though a position was given at the end of the lines and "see boat sheet" was placed in the sounding volumes. The smooth plotter should plot the lines according to time and course and ignore the "see boat sheet" positions.

Since all signals had to be located by ground survey methods, the cost and time which would have been required to locate signals in all of the coves would have been prohibitive. Thus, the procedure of dead reckoning into coves was adopted for the entire project (OPR-443).

#### G. SHORELINE

The shoreline was transferred from a film position of Navy sheet No.8 dated 1948 outlining the 1200 foot and the 1150 foot contours.

The 1150 foot contour is shown in red and the 1200 foot contour is shown in black on the boat sheet.

When the lake level dropped to 1150 feet above MSL, aerial infrared photographs were made. This contour was not verified by hydrography due to the low lake level at the time of hydrography.

### H.CROSSLINES

Crosslines were run in excess of 8%. Favorable crossings were found.

# I.JUNCTIONS

Depths at contemporary surveys H-8776 (HFP 12-5-64) and H-8804 (HFP 12-2-64) are in agreement, and contours can adequately be drawn at the junctions.

# J.COMPARISONS WITH PRIOR SURVEYS

Comparison with Navy sheet No.8, 1948-1949 Scale 1:12,000:

The prior survey was of a reconnaissance nature and since no shoals or rocks were investigated, an adequate comparision can not be made.

In general, the depths of this survey are shoaler than the depths of the prior survey. This is probably due to silt.

# K. COMPARISION WITH THE CHART

Chart:

C&GS 5459 A

2nd Edition Oct.,1955 Revised Sept.2,1963 Scale - 1:48,000

All reefs and rocks indicated on the chart were plotted on the boat sheet in red pencil with their respective elevations indicated in pencil.

Reccomendation is made that the following reefs and rocks be deleted from the chart:

1.	ROCK		~{9~{1 == x	
	Charted pos.	Lat.	36°06′.51 N	
		Long.	114°21′.68 W	
	Charted elev.		1140/	Deleted
2.	ROCK			
	Charted pes.	Lat.	36°06′.60 N	
		Long.	114°21'.61 W	
	Charted elev.		1140/	Deleted
3.	ROCK Charted pos.	Lat.	36°05′.89 N	•
	onar ood pobe			
		Long.	114°19′.72 W	. ,
	Charted elev.		1117 "	Deleted
4.	ROCK		1	
	Charted pos.	Lat.	36°05′.71 N	
		Long.	114 <sup>0</sup> 19 <sup>'</sup> •97 W	
	Charted elev.		1133	Peleted
5.	ROCK			
	Charted pos.	Lat.	36°07°.15 N	
		Long.	114°19′.91 W	
	Charted elev.		1100	Stet- 1098' sudg on B.

Searched for
The above five rocks were investigated at a lake level of 1123 and no evidence of their existence was found.

The following rocks, reefs and ledges exist but were not investigated:

1.ROCK

Charted pos.

Lat.

36°05'.59 N

Long.

114°17'.69 W

Charted elev.

This is not a rock. It is a reef. It's position and elevation are approximately correct. No fix available at this point. No Corr

2. ROCK

Charted pos.

Lat.

36°08'.11 N

Long.

114°20'.65 W

Charted elev.

1158

This rock should be charted as it is presently charted.

No Corr

3. REEF

Charted pos.

Lat.

36°02'.93 N

Long.

114°20' .28 W

Charted elev.

1185

This rock is above the high water line.

A11/200'curve

4. REEF

Charted pos.

Lat.

36°02 90 N

Long.

114°20' .50 W

Charted elev.

1187

No fix was available. The position and elevation as charted are approximately correct.

No Corr

5. ROCK

Charted pos.

Lat.

36°02'.87 N

Long.

114°20'.39 W

Charted elev.

1165

No fix was available. The position and elevation as  $\mathcal{N}_{\theta}$  Correctanted are approximately correct.

6. REEF

Charted pos.

Lat.

36°02'.70 N

Long.

114°20' .52 W

Charted elev.

1192

No fix was available. The position and elevation as charted No Corrare approximately correct.

7. REEF

Charted pos.

Lat.

36°02'.81 N

Long.

114°18'.\$1 W

Charted elev.

1165

340mm 25 11451

This regulars signal ART and has a National Park Service reef marker on it. An elevation of this reef was not obtained. It was located at a lake level of 1140. Photogrametric manuscript T-12571 showing the 1150 foot contour does not show the reef. Thus, it can be concluded that the true elevation is between 1140 feet and 1150 feet.

#### L. ADEQUACY OF SURVEY

This survey is adequate to supercede prior surveys up to the 1150 foot contour. The actual hydrography covered only that area up to the 1123 foot contour, but all rocks, reefs and ledges up to the 1150 contour were located and an elevation determined except for the exceptions noted in the previous section of this report. Above the 1150 foot contour this survey is not adequate for charting

## M. AIDS TO NAVIGATION

There are reef markers on some of the numerous reefs. All reef markers were located. The reef markers are placed at the highest part of the reef and are maintained by the National Park Service.

The standard National Park Service reef marker is a hard, black rubber cylinder which is 4.0 feet to 4.5 feet in length with an outside diameter of 6 inches. It is bolted to a pipe which is embedded in concrete at the top of the reef. None of the reef markers are lighted. The top two feet of the reef marker is flexible enough that if hit by a boat, it would bend and probably not inflict any serious damage to the boat.

A lighted black and white buoy is maintained by the National Park Service at the Temple Bar Anchorage. At the time of hydrography the buoy was located at Lat. 36°02'.45 N and Long. 114°18'.84 W. This buoy is moved as the lake level changes.

## N.STATISTICS

LAUNCH	No. of Positions	Nautical Miles of sounding lines
CS 1177	1391	151.9
CS 183	1234	134.4
TOTAL	2625	286.3

Total Area of Survey 10 sq. N Miles
Total Number of bottom samples 10

A portable automatic tide gage located at Hualpai Wash provided lake level control up to May 12,1964 for this sheet. The Stevens Standard Tide Gage at Hoover Dam was used for lake level control for Sept. 18,1964 and Sept. 22,1964.

Data for reduction of soundings was taken directly from the maxigram without time or range corrections. See Appendix A for additional information concerning tides.

#### O.MISCELLANEOUS

A hand level was used to run levels to points above the existing lake level.

The elevations shown in the sounding volume and on the boat sheet for reefs which are marked by National Park Service reef markers are to the top of the reef and not to the top of the reef marker.

The term shoreline as used in this report and in the sounding volumes is the shoreline of the lake at the time of hydrography which for this sheet is approximately the same as the 1123 foot contour.

The following scheme was used for placing contours on the boat sheet:

CONTOUR (feet above MSL)		COLOR
1200	• · · · · · · · · · · · · · · · · · · ·	black
1150		red
1100		orange
1050		green
1000	<b>.</b>	red
950		blue
<b>90</b> 0		red
850	·	orange
800		blue
750		violet

Respectfully submitted,

FOR Richard H. Allbritton
LTJG., USC&GS

# APPENDIX A (Conit.)

Gage Location:

Hualpai Wash, Lake Mead, Arizona Lat. 36° 61.2' Long. 114° 07.5'

Gage Type:

Portable Automatic

Staffs Zeros:

Staff Number	Date Established	Elevation
1 2	31 December 1963 9 March 1964	1126.868

Gage was used to control boat sheets 12-1-64, 12-2-64, 12-3-64, and 12-4-64. No time or heights corrections were applied to the results obtained from the gage for reducing soundings. Gage was discontinued on 12 May 1964 and removed 7 July 1964. Hoover Dam gage was used for the remainder of the project on the above sheets without any time or height corrections applied to the results obtained from the gage in reducing soundings.

120th meridian time was used at this station.

#### APPENDIX B

The basic control on H-8803 (HFP 12-1-64) was USGS third-order triangulation stations. Three topographic stations (marked) were established near the Temple Bar anchorage and located as intersecting stations, using a wild T-2 and 8-plate settings.

The majority of the signals were located as intersecting stations. The computations and field data will be submitted with the control sheets. The computations are in loose leaf binders and are divided into sections by boat sheet.

The order of material in a section, designated by a boat sheet field number, is as follows:

- 1. Abstract of Directions (Form 470)
- 2. List of Preliminary Grid Azimuths (Form 758)

  Reference to the proper field volume and page (Form 251), Observations of Horizontal Directions, is made on the forms.
- 3. Position of Intersected Station (Form 157). The signals are arranged in alphabetical order in this subsection.

# APPENDIX B (cont.)

Source of this list of signals is Master Control Sheet 12-1-64 except as noted.

( This list includes all signals used thru "p" day Vol. 12 )

# HFP 12-1-64

### TRIANGULATION

ALE	( N-106,1948 )	QUO	(A-37,1948)
DAN	( N-105,1948 )	ROT	( N-112,1948 )
EGG	( A-36,1948 )	SIR	( N-109,1948 )
FEZ .	. ( A-32,1948 )	TUB	( A-39,1948 )
FRY	( A-40,1948 )	WAX	( N-108,1948 )
GEM	( N-110,1948 )	ZAG	( A-34,1948 )
GUY	( N-111,1948 )	ZIG	( N-107,1948 )
JAP	( A-33,1948 )	••	

# TOPOGRAPHIC (m)

BAR ( 1964 )

SEA ( BAY, 1964 )

TEMPLE ( 1964 )

# APPENDIX B (cont.)

# TOPOGRAPHIC

ABE						NIX
ART						OIL
ASK						PAR
AZO				,		PIN
BAY					~	POI
BUT	*					POL
CAM						RAP
DEL						REB
DOG						SET
DOT						SIG
EGO	*					SIS
GOB		٠				SUB
HAS						TEA
HAY			٠			THE
ICE						TOM
JAR				•		MIV
JOE						WAS
KIT						WHO
LIT						WOO
NAG						

# APPENDIX B (cont.)

# HYDROGRAPHIC

ERG

FED

LAC

LAN

NOE

NON

OFF

TON

# FATHOMETER CORRECTIONS HYDROGRAPHIC SURVEY #=8803 - (12-1-64) Lake Mead, Nevada - Arizona

Vessel: Launch CS-183
Day Letters: a,b,c,d,e,f
Fath. No: DE-723 - #263

A SCALE		B SCALE	
0.0 to 24.0 24.0 to 48.0 48.0 to end of scale	+0.4 +0.2 0.0	40.0 to 54.0 54.0 to 90.0	+0.6 +0.8
B SCALE	ar anna an t-aire ann an t-aire an t-air T-aire ann an t-aire an t-	C SCALE D SCALE E SCALE	+0.2 0.0 -0.3
48.0 to 71.0	+0.2	F SCALE G SCALE	-0.5 -0.5
71.0 to 84.0	0.0	H SCALE	-0.5
84.0 to end of scale	+0.2	ii donies	
C SCALE	-0.1 -0.3	Vessel: Launch CS-1 Day Letters:m,n,p	.83
D SCALE E SCALE	-0.5	Fath. No: DE-723 -	#265
F SCALE	-0.8	•	•
G SCALE H SCALE	-1.0 -1.3	A SCALE	
		0.0 to 20.4	+0.6
Vessel: Yaunch CS-18	3	20.6 to 34.0	+0.8
Day Tetters: g,h,j,k		34.2 to 50.0	+1.0
Fath. No: DE-723 - #	265   1   1   1   1   1   1   1   1   1		•
		B SCALE	<b>+</b> 0.8
A COATE		C SCALE	+0.2
A SCALE		D SCALE	-0.0
0.0 to 6.0	+0.4	E SCALE	-0.2
6.0 to 30.0	+0.6	F SCALE	-0.6
30.0 to 50.0	40.8		

# FATHOMETER CORRECTIONS HYDROGRAPHIC SURVEY H-8803 - (12-1-64) Lake Mead, Nevada - Arizona

Vessel: Launch CS-1177 Day Letters: r,s Fath. No: DE-723 - #263

Fath. Depth (ft.)	Corr.	(ft.)	***************************************	B SCALE		
0.0 to 12.0 12.1 to 16.0	0.0 +0.2	and the second	48.0 49.1	to 49.0 to 52.0		+0.8
16.1 to 20.0 20.1 to 23.5 23.6 to 26.5	+0.4 +0.6 +0.8 +1.0		56.6 66.1	to 56.5 to 66.0 to 80.5 to 90.0		+1.2 +1.4 +1.6 +1.8
26.6 to 30.5 30.6 to 47.5 47.6 to 51.5 51.6 to 55.5	+1.2 +1.4 +1.6			C SCALE		+1.4
55.6 to 58.5 58.6 to 61.5 61.6 to 65.5	+1.8 +2.0 +2.2			D SCALE E SCALE F SCALE G SCALE		+1.4 +1.2 +1.0 +0.8
65.6 to 146.0 146.5 to 160.0 160.5 to 167.5	+2.4 +1.7 +1.2 +0.7			G SURLE		40.0
168.0 to 172.5 173.0 to 190.0 190.5 to 246.0	+0.2 0.0				•	

Vessel: Launch CS-1177

Day Letters: s Fath. No: DE-723 - #265

# A SCALE

			The second second second	
0.0	to	6.0		0.0
		9.0	1.0	+0.2
		18.5		+0.4
18.6				+0.6
30.1	to	33.0		40.8
33.1	to	41.5		+1.0
		48.0		+1.2

# FATHOMETER CORRECTIONS HYDROGRAPHIC SURVEY H\_\$803 - (12-1-64) Lake Mead, Nevada - Arizona

Vess	el.	: Le	auno	ch	CS-	1177
Day	Le	tte	cs:	a,	b,c	,d
Fa+h		No:	DE-	<b>-</b> 72	3 -	#263

Vessel: Launch CS-1177

Day Letters: j,k,l,m,n,p,q

Fath. No: DE- 723 - #265

A SCALE		A SCALE	
0.0 to 41.2 41.2 to 50.0	-0.0 -0.2	6.0 to 7.5 7.5 to 10.5 10.5 to 15.5	+0.4 +0.6 +0.8
B SCALE		15.5 to 20.0 20.0 to 24.5 24.5 to 39.0 39.0 to 48.0	+1.0 +1.2 +1.4 +1.6
48.0 to 74.4 74.4 to 83.0 83.0 to 90.0	<b>-</b> ∩.2 -∩.4 -∩.6		
		B SCALE	
C SCALE	-0.4 -0.5	48.0 to 54.0	+1.0
D SCALE E SCALE	<b>-</b> 0.7	54.0 to 73.0	+1.2
F SCALE	-0.9. Series of the series of	73.0 to 90.0	+1.4
G SCALE	-1.2		
		C SCALE	<b>+</b> ∩.8
Vessel: Launch	CS_1177	D SCALE	+0.8
Day Letters: e,	f.g.h	E SCALE	+0.6
Fath. No: DE-72	23 - #265	F SCALE	∻0.4 •0.4
		G SCALE	+0.4
A SCALE	2.0		
B SCATE			
C SCALE D SCALE		e e	• .
E SCALE			
F SCALE			
G SCALE			

# APPENDIX D

Approval sheet to accompany Hydrographic Sheet H -8803 (HFP 12-1-64).

# Project OPR 443

The records, corrections and all field and office work was supervised by P.A.STARK, CDR., USC&GS and H.E.McCALL, LT., USC&GS.

This descriptive report was written by RICHARD H.ALLBRITTON, LT. (jg), USC&GS.

The report and records for this survey are complete to the best of my knowledge.

Approved and forwarded,

Tharold E. McCall

H.E.McCALL,LT.,USC&GS

Officer - in - Charge

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

March 11, 1968

Nautical Chart Division: R. H. Carstens

Plane of reference approved in 13 volumes of sounding records for

HYDROGRAPHIC SHEET 8803

Locality: Lake Mead, Nevada - Arizona

Chief of Party: P. A. Stark; H. E. McCall (1964)

Plane of reference is mean lower lake level (which is 1100 feet above sea-level datum)
Tide Station Used (Form C&GS-681):

\$

Hualpai Wash Boulder Wash

Height of Mean High Water above Plane of Reference is as follows:

Remarks

Chief, Tides and Currents Branch

USCOMM-DC 6680-P64

FORM 1\$7 (3-16-55)

On J.S. Hedrings P.O. Guide of Men Risnd McHally Aug 5 Or Ho. J.S. HATLIST **GEOGRAPHIC NAMES** tion don't del Or local Mages Survey No. H-8803 Or No. Name on Survey · В E F G 3 9 10 12 13 15 \$ 16 17 18 19 20 21 22 23 24 25 26. 27

FORM C&GS-946 (REV. 11-65) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

#### U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

# HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. 8803

RECORDS ACCOMPANYING SURVEY: To be compl	

RECORD DESCRIPTION			AMOUNT			RECORD DESCR	AMOUNT	
SMOOTH SHEET					BOATS	HEETS	1 .	
DESCRIPTIVE REPORT		1	1 OVERLAYS					
DESCRIPTION	DEPTH RECORDS		RIZ. CONT. PRINT		OUTS TAPE ROLLS PUNCHED CARDS			ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES								
CAHIERS	2							
VOLUMES	13							
BOXES								

T-SHEET PRINTS (Liet)

SPECIAL REPORTS (List)

1 Cahier - Misc. Data filed with H-8772.

### OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

·	AMOUNTS							
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TQTALS				
POSITIONS ON SHEET								
POSITIONS CHECKED								
POSITIONS REVISED								
DEPTH SOUNDINGS REVISED	<b>\</b>							
DEPTH SOUNDINGS ERRONEOUSLY SPACED								
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED								
		TIME (MA	NHOURS)					
TOPOGRAPHIC DETAILS								
JUNCTIONS								
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS								
SPECIAL ADJUSTMENTS								
ALL OTHER WORK		·						
TOTALS		``						
PRE-VERIFICATION BY		BEGINNINGDATE	ENDING	DATE				
VERIFICATION BY		BEGINNING DATE	ENDING	DATE				
REVIEW BY	<del></del>	BEGINNING DATE	ENDING	DATE				
	:	1	1					

USCOMM-DC 36271-P65

FORM C&GS-946A (REV. 11-85) (PRES. BY HYDROGRAPHIC MANUAL, 6-94)

# VERIFIER'S REPORT HYDROGRAPHIC SURVEY, H = 8803

INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

- CL Check List Items: should be checked as having been completed during the verification processes.
- R . Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Part I - DESCRIPTIVE REPORT  Note: The verifier should first read the Descriptive Report for general information and problems.  1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken.		R	Part III - JUNCTIONS (Continued)	CL	R
			- 10. Junctions with contemporary surveys were satisfactory except as follows:  Remarks Required: Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.		
Remarks Required: None  2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification.  Remarks Required: None  3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year.			Part IV - VOLUMES  11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes.  Remarks Required: None		
Remarks Required: None  Part II - SHORELINE AND SIGNALS 4. Source of shoreline signals			12. Condition of sounding records was satisfactory except as follows:  Remarks Required: Mention deficiencies in completeness of notes or actions for the follow-		
<ul> <li>Remarks Required: List all surveys</li> <li>a. Give earliest and latest dates of photographs</li> <li>b. Field inspection date</li> <li>c. Field Edit date</li> <li>d. Reviewed-Unreviewed</li> </ul>			ing:  (a) rocks (b) line turns (c) position values of beginning and ending of lines  (d) bar check or velocity correctors		
<ol> <li>The transfer of contemporary topographic information was carefully examined and rec- onciled with the hydrography.</li> <li>Remarks Required: Discuss remaining differences.</li> </ol>			<ul> <li>(e) time recording</li> <li>(f) notes or markings on fathograms</li> <li>(g) was reduction of soundings accurately done</li> </ul>		
6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet.  Remarks Required: None			<ul> <li>(h) was scanning accurate?</li> <li>(i) were peaks at uneven intervals missed?</li> <li>(j) were stamps completed?</li> <li>(k) references to adjacent features</li> </ul>		
7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet.  Remarks Required: List those signals still unidentified.			Part V - PROTRACTING  13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp.  Remarks Required: None		
Port III - JUNCTIONS  Note: Make a cursory comparison preliminary to inking soundings in area of overlap.  8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical.			14. The protracting and plotting of all unsatisfactory crossings were verified.  Remarks Required: None		
Remarks Required: None  9. The notation in slanted lettering "JOINS H (19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil.  Remarks Required: None	İ		15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible.  Remarks Required: None		

Part V - PROTRACTING (Continued)  16. The protracting was satisfactory except as follows:	CL	R	Part VIII - AIDS TO NAVIGATION  26. All fixed aids located together with those on the contemporary topographic sheets, have	CL	R
Remarks Required: Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.	<del></del> -		been shown on the survey.  Remarks Required: Conflicts of any nature listed.		]-  - 
17. The protractor has been checked within the last three months. Remarks Required: Date of check, type of protractor and number.			27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification.  Remarks Required: None		
Part VI - SOUNDINGS  18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings.  Remarks Required: None			Part IX - BOAT SHEET  28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information.		
19. Sounding line crossings were satisfactory except as follows: Remarks Required: Discuss adjustments.			Remarks Required: None  29. Heights of rocks awash were correctly re-		
20. The spacing of soundings as recorded in the			duced and compared with topographic information.		
records was closely followed; Remarks Required: None			Remarks Required: Note excessive con- flicts with topographic information.		
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified.  Remarks Required: None			Part X - GENERAL  30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2).  Remarks Required: None		
22. The smooth plotting of soundings was satisfactory except as follows:					•
Remarks Required: — Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.			31. Unnecessary pencil notes have been removed from the sheet.  Remarks Required: None		·
Part VII - CURVES  23. The depth curves have been inspected before inking.  Remarks Required: By whom was the penciled curves inspected.			32 Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet.		
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following:			Remarks Required: - None		
<ul> <li>a. From T-Sheet in dotted black lines</li> <li>b. From soundings in orange</li> <li>c. Approximate position of sketched curve is</li> </ul>			33. The bottom characteristics are adequately shown.		
dashed oránge			Remarks Required: None		
d. Approximate position of shoal area not sounded in black dashed			Part XI - NOTES TO THE REVIEWER  34. Unresolved discrepancies and questionable		
Remarks Required: None			soundings.		
25. Depth curves were satisfactory except as follows:  (This statement should not refer to the manner in which the curves were drawn).  Remarks Required: Indicate areas where			35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.	d	
curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.			36. Supplemental information.		
Verified by			Date		

#### NAUTICAL CHART DIVISION

#### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8803

#### **INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975

USCOMM-DC 8558-P63